Simulating a Harbor Unloading Operation

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Abstract

An unloading operation taking place in a small harbor is considered. The purpose of this paper is to analyze the present system and propose various means the waiting time of the ship could be reduced. Two SLAM models are formulated to simulate the system under two operating policies. Average waiting time of barges, number of tug-boats, number of unloading cranes at the ship and the number of unloading cranes at the yard and the most feasible way of reducing the waiting time of the ship is proposed.

Keywords: Simulation, SLAM models.